coster group

PERSONAL AUTOMATION

WebGarage

Installation & configuration Quick Guide

1 Creating a project

After logging in from a browser (e.g. http://localhost:8080/home) as an administrator or super user it is possible to create a new project

By clicking on the “Users” menu you can:

- create a new User
- associate her to one or more project(s)
- give her rights and privileges by associating specific “queries” to the User
- set the UI language
- set the alarms receival options

Ex: project access

Ex: enable immediate alarms email sending

Please refer to alarms' configuration and management guide for more details on alarms configuration.

2 Setting the SMTP server

An SMTP server must be set up to send emails. The address entered will be the sender from which all the notification mails (alarms, etc.) will be sent to the single user configured in the appropriate entry USERS.

Once a new project is created and users are configured it is possible to start with the system configuration wizard.

3 Plant importing and creation/configuration

Once this step is completed, the user can connect with the associated credentials and proceed with the login (default username and password are su:su)

From the main menu activate the extensions necessary for the integration and management of the Y and X series by first selecting the "Settings" button

And the "Ext" option from the context menu

From the list of extensions that will be displayed on the right side, select the extensions and activate them by selecting the rightmost part of the element:

FinWizard

- CosterSerieX
- Modbus
- Utils
- Alarm Config

After this**, refresh the browser** page and from the WebGarage main menu select the new "Import Wizard" option

On the page displayed select whether to import a plant based on the Y-serie or on the X-series.

4 Importing the Y series

The web page will propose a few fields to be completed:

- the .clm file (produced by CosterCad) to upload to the server
- The three tree elements (Site (Level 1) /Floor (Level 2) /Equipment (Level 1))

If the tree elements are already existing, just select them, otherwise it is possible to create the layer entering the new description directly in the field in which
the cursor is positioned (editing is case-sensitive).

Once the required information has been entered and the "*Continue*" button has been clicked, the automatic procedure will start which will unzip, copy and import the necessary files for plant configuration.

A modbus connector configuration page will be shown at the end of this step, in which it will be necessary to enter in the syntax shown in the figure

- Modbus slave address
- Type of modbus-rtutcp protocol (for RTU over TCP) / modbus-tcp (for Modbus TCP)
- Network Ip or Domain Name
- Port for plant access (at the gateway input, usually 1470 for Y devices or 502 default for Modbus TCP)

After entering the data, press "*Continue*" and complete the procedure

On the right side of the page there is a menu used to display the screen pages, the wiring diagrams report and the Modbus registers relating to the integrated device It is necessary to select the "**YLC**" or "**YLC CONFIG**" element marked with the WebGarage logo to load the screen.

Selecting the **Report** element will display the pdf document containing the application, wiring diagrams and the modbus registers

The other two pages that both show the same screen are different as:

- **YLC**: and the screen in view only. This page shows all the inputs, status outputs, alarms and setpoints relating to the Y Series device on which the reference screen is running;
- **YLC CONFIG**: complete screen. From this page it is possible to display and above all parameterize the whole screen device running on the control unit.

The two pages have been split to avoid overloading the remote connection to the system.

The **YLC** page allowing only to display the main plant data does not affect the volume of data traffic from a WebGarage server installation to the plant to be supervised. The **YLC CONFIG** page, on the other hand, requires all the Y Series controller registers to be updated when it is opened, with a higher consumption in terms of data traffic.

To conclude it is important to know that by leaving open the **YLC CONFIG** page in background WebGarage updates the set of registers useful to display the screen every 30 seconds as default time.

The inputs and outputs integrated and historicized through the above described “Import Wizard” procedure will be stored in WebGarage with an interval of 60 minutes.

5 Importing the X series

Using the "*Import Wizard*" application it is also possible to import an X Series device, select the appropriate option.

From this page it is possible to set up the project:

- By selecting the model of the device to be imported from the drop-down menu that will show all supported models.
- creating the three tree levels of the project (Site (Level 1) /Floor (Level 2) Equipment (Level 1))

Press the *Continue* button to access the second page of the Wizard

Here all the parameters for connecting to the device must be entered:

- IP Address or Domain Name
- Port for access to plant data. If the standard port 10001 is used, it is not necessary to change the Cbus address field of the device (mini-Cbus is not supported)
- Enabling alarms: it is possible to enable the reception of push alarms (not recommended with fast polling frequencies, under 15 minutes). If push alarms are enabled it is possible to select the port on which they are sent. Also in this case, if the default 10002 is used, there is no need to change it.
- The password of the device in case the device asks for it (This can only be entered if the device already has an active password.)

Pressing the *Continue* button will complete the device importing process.
If the device is not reachable, the process may take a few minutes. Pressing the *Finish* button will return the user to the beginning of the Wizard, but the **X-MAIN** graphic will appear on the right-hand side of the screen, allowing the user to query the imported device.

6 Managing Y Web Libraries / Managing X Graphics

Managing Y web libraries: it is possible, by selecting this option, to display the graphic libraries associated with each screen loaded on the server. If the server is connected to the Internet, it is also possible to download the most recent and correct ones free of charge.

Manage X Graphics: by selecting this option, it is possible to update the new graphics package (.zip file) of the libraries for the X Series. Contact Coster Group assistance to have the latest versions available.

7 Alarms configuration and management

7.1 Sending alarms and Topics

On the configuration page of each user there are fields for alarms subscription:

Immediate subscription means that the relaunch of e-mails occurs as soon as the alarm occurs, ***digest*** subscription instead offers daily summary e-mails of the alarms raised. Clicking on it, the topics to which it is possible to subscribe are displayed.

These ***topics*** are in turn configurable by the Folio application:

By associating a name to the topic it is possible to specify some tags on the points we wish to include in the topic:

Create Alarm Topic
Topic Name
Add Alarm Priority
0
Exact
Any Tags
Alarm Tags
Custom Alarm Tags
All Tags
Target Tags
equip
floor
justAdded
site
CANCEL
CREATE

8 Appendix

8.1 Tags

- *allarmey700*: all the alarms of the y series projects
- *allarmeingressionoff (on off inputs alarm)*
- *allarmeingressianalogici (analog inputs alarm)*
- *allarmelimitetemperature (temperature limit alarm)*
- *allarmeregime (mode alarm)*
- *allarmesondaguasta (faulty probe alarm)*
- *setPointMode*: points that indicate the setpoints activation mode
- *setPointTemp*: points that indicate the setpoint temperature
- *import*: tag used on the points to be imported automatically via wizard, the wizard does not keep this tag on the points, but a manual import would keep it, it has no use and can be deleted

8.2 Properties

- *signature* : String: control unit signature value
- *limsup* (upper limit): String: property present in the points tagged by *temperature limit alarm* indicating the ID of the connector from which to read the minimum threshold temperature of the alarm
- *liminf* (lower limit): String: property present in the points tagged by *temperature limit alarm* indicating the ID of the connector from which to read the maximum threshold temperature of the alarm
- *calculated*: String: property present in the points tagged by *temperature limit alarm* that indicates the ID of the connector from which to read the calculated temperature
- *measured*: String: property present in the points tagged by *temperature limit alarm* that indicates the ID of the connector from which to read the temperature measured
- *calculated*: String: property present in the points tagged by *mode alarm* that indicates the id of the connector from which to read the calculated temperature
- *measured*: String: property present in the points tagged by *mode alarm* that indicates the id of the connector from which to read the measured temperature

8.3 Enumerators

(automatically imported from the wizard if non present when imported for the first time in a project)